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NOTICE OF ALLOWANCE AND FEE(S) DUE

28932

7500

09/22/2010

EXAMINER
CHANDLER, SARA M

CHANDLER, SARA IV

ART UNIT

PAPER NUMBER

3693

DATE MAILED: 09/22/2010

PHIL KONGTCHEU PFK TECHNOLOGIES P.O. Box 457 NEW YORK, NY 10108

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.

10/518,823 09/14/2005 Phil Kongtcheu 9878

TITLE OF INVENTION: METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS TO FACILITATE THE FORMATION AND TRADING OF DERIVATIVES CONTRACTS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	12/22/2010

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NEW YORK, N	Y 10108					(Depositor's name)	
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	A	TTORNEY DOCKET NO.	CONFIRMATION NO.	
10/518,823 TITLE OF INVENTION OF DERIVATIVES COM		1S AND COMPUTER F	Phil Kongtcheu PROGRAM PRODUCTS T	O FACILITATE TH	HE FORMATION AND	9878 TRADING	
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE F	FEE TOTAL FEE(S) DUI	E DATE DUE	
nonprovisional	YES	\$755	\$300	\$0	\$1055	12/22/2010	
EXAM	INER	ART UNIT	CLASS-SUBCLASS				
CHANDLEI	R, SARA M	3693	705-03600R				
"Fee Address" ind. PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Unl	ondence address (or Cha 3/122) attached. ication (or "Fee Address' 22 or more recent) attach ND RESIDENCE DATA ess an assignee is ident h in 37 CFR 3.11. Comp	nge of Correspondence Indication form ed. Use of a Customer A TO BE PRINTED ON This indication is a second of the control of	2. For printing on the p (1) the names of up to or agents OR, alternativ (2) the name of a single registered attorney or a 2 registered patent attoolisted, no name will be THE PATENT (print or type data will appear on the patent attoolisted). The patent of the patent will appear on the patent appear on	3 registered patent a vely, e firm (having as a m gent) and the names rneys or agents. If no printed. be) atent. If an assignee assignment.	nember a 2of up to a name is 3is identified below, the	document has been filed for	
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==	s SMALL ENTITY stated	us. See 37 CFR 1.27.	b. Applicant is no longed from anyone other than the Office.			CFR 1.27(g)(2). the assignee or other party in	
				Date			
Typed or printed name				Registration No.			
This collection of inform an application. Confident submitting the completed this form and/or suggests Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C tiality is governed by 35 I application form to the ons for reducing this bur (irginia 22313-1450. DC 13-1450.	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to the NOT SEND FEES OR	on is required to obtain or r 1.14. This collection is est 7 depending upon the indiv 8 Chief Information Office COMPLETED FORMS TO	etain a benefit by the imated to take 12 mi idual case. Any com r, U.S. Patent and Tr D THIS ADDRESS. S	public which is to file (an nutes to complete, includi ments on the amount of t ademark Office, U.S. De SEND TO: Commissioner	nd by the USPTO to process) ing gathering, preparing, and ime you require to complete partment of Commerce, P.O. r for Patents, P.O. Box 1450,	

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PHIL KONGTCHEU			CHANDLER, SARA M	
PFK TECHNOLO	GIES		ART UNIT	PAPER NUMBER
P.O. Box 457 NEW YORK, NY	10108		3693 DATE MAILED: 09/22/201	0

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 331 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 331 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)			
	10/518,823	KONGTCHEU, PHIL			
Notice of Allowability	Examiner	Art Unit			
	SARA CHANDLER	3693			
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS			
1. This communication is responsive to <u>06/10/10</u> .					
2. ☑ The allowed claim(s) is/are <u>292-309</u> .					
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	been received. been received in Application No				
* Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements			
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give					
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.					
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached					
1) hereto or 2) to Paper No./Mail Date					
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date					
ldentifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).					
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.					
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal P 6. ☐ Interview Summary Paper No./Mail Dat 7. ☑ Examiner's Amendn 8. ☑ Examiner's Stateme 9. ☐ Other	(PTO-413), e			

DETAILED ACTION

Response to Amendment

This Office Action is responsive to Applicant's arguments and request for reconsideration of application 10/518,823 (04/22/08) filed on 08/10/10.

Allowable Subject Matter

Claims 292-309 are allowed, subject to the examiner's amendment below.

Authorization for this examiner's amendment was given in a telephone interview with pro se applicant Phil Kongtcheu, Monday, August 30, 2010

EXAMINER'S AMENDMENT

The application has been amended as follows: In the specification, please replace the Title and Abstract with the amendments noted below. Please cancel claims 274-291. Please add new claims 292 - 309.

Title

Methods, systems and computer program products to facilitate the pricing, risk management and trading of derivatives contracts.

Abstract

This invention relates to methods, systems and computer program products to facilitate the pricing trading and risk management of derivatives contracts on one or more underlying via the introduction of Basis instrument Contracts (BICs). Such pricing trading and risk management may be done in organized exchanges or in over-the-counter (OTC) markets.

Claims 274 - 291 (Cancelled)

Claim 292 (New) A method for yielding a premium payment amount of a derivative contract along a multi-period timeline comprising:

a) receiving, via a first input device linked to a computer processor, a request

from a user for a premium payment amount of a derivative contract, said

derivative contract having a description comprising, on the multi-period timeline,

a contract agreement time, a premium payment time and a payout payment time

and, said description further comprising a payout payment amount described as

a function of realized values of specified underlying(s) or parameters between

the premium payment time and the payout payment time;

b) receiving, via a second input device linked to the computer processor, a

premium payment amount for each marginal unit of basis instruments contracts

(BICs) having the same payout payment time as the derivative contract, each

said marginal unit of BICs having the same premium payment time, said

premium payment time being a time that precedes the payout payment time of

the derivatives contract on the multi-period timeline;

c) decomposing, by the computer processor, the derivative contract into a

portfolio of composing BICs, wherein each composing BIC comprises a quantity

of marginal units of BICs having the same payout payment time as the derivative

contract;

d) computing, by the computer processor, a premium payment amount for each

Page 4

composing BIC based on a sum of the marginal units of BICs premium payment

amounts in the quantity given by the portfolio decomposition;

e) computing, by the computer processor, a premium payment amount of the

derivatives contract based on the portfolio of composing BICs having the same

payout payment time as the derivatives contract, wherein said premium payment

amount of the derivatives contract is computed as a weighted sum of the

premium payment amounts of the composing BICs in the portfolio based on the

quantities given by the portfolio decomposition,

f) yielding, by the computer processor, the premium payment amount of the

derivatives contract for the premium payment time of the marginal units of BICs;

g) repeating steps a), b), c),d), e) and f), where the premium payment amount of

the derivative contract for the premium payment time of the marginal units of

BICs is received by the first input device as a new derivatives contract with an

incrementally decreased payout payment time, and wherein said repetition

terminates when the premium payment time in step f) coincides with the

premium payment time specified by the user in the description for the derivative

contract;

h) and transmitting, via an output device linked to the computer processor, the

premium payment amount for the derivative contract yielded in step f) when step

g) indicates the repetition terminates, to the user who requested the premium

payment amount of the derivative contract.

Claim 293 (New) The method of claim 292, where the BICs are supplied in a variety of payout payment formats, including the Options format, the extended Arrow Debreu format and the Fourier format.

Claim 294 (New) The method of claim 292 used in a trading or exchange system, wherein step b) includes receiving a computed marginal premium payment amount for each unit or group of composing BICs obtained by selecting the most competitive price among those quoted by one or more market makers.

Claim 295 (New) The method of claim 294, where the selected most competitive prices are subsequently contracted upon confirmation of a user's intent to trade the original derivatives contract.

Claim 296 (New) The method of claim 292, wherein the premium payment amount for the marginal units of BICs received from the second input device is provided in aggregate or compressed form to reduce complexity or computing time.

Claim 297 (New) The method of claim 292, wherein the premium payment amount transmitted via the output device is increased by an optional service margin.

Claim 298 (New) A system for yielding a premium payment amount of a

derivative contract along a multi-period timeline comprising:

a) a first input device configured to receive a request from a user for a premium

payment amount of a derivative contract, said derivative contract having a

description comprising, on the multi-period timeline, a contract agreement time, a

premium payment time and a payout payment time and, said description further

comprising a payout payment amount described as a function of realized values

of specified underlying(s) or parameters between the premium payment time and

the payout payment time;

b) a second input device configured to receive a premium payment amount for

each marginal unit of basis instruments contracts (BICs) having the same payout

payment time as the derivative contract, each said marginal unit of BICs having

the same premium payment time, said premium payment time being a time that

precedes the payout payment time of the derivatives contract on the multi-period

timeline;

c) a computer processor linked to the first input device configured to decompose

the derivative contract into a portfolio of composing BICs, wherein each

composing BIC comprises a quantity of marginal units of BICs having the same

payout payment time as the derivative contract;

a computer processor linked to the first input device and the second input device

configured to:

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d) compute a premium payment amount for each composing BIC based on a sum of the marginal units of BICs premium payment amounts in the quantity given by the portfolio decomposition;

e) compute a premium payment amount of the derivatives contract based on the portfolio of composing BICs having the same payout payment time as the derivatives contract, wherein said premium payment amount of the derivatives contract is computed as a weighted sum of the premium payment amounts of the composing BICs in the portfolio based on the quantities given by the portfolio decomposition,

f) yield the premium payment amount of the derivatives contract for the premium payment time of the marginal units of BICs;

g) repeat steps a), b), c),d), e) and f), where the premium payment amount of the derivative contract for the premium payment time of the marginal units of BICs is received by the first input device as a new derivatives contract with an incrementally decreased payout payment time, and wherein said repetition terminates when the premium payment time in step f) coincides with the premium payment time specified by the user in the description for the derivative contract;

h) and an output device linked to the computer processor configured to transmit the premium payment amount for the derivative contract yielded in step f) when step g) indicates the repetition terminates, to the user who requested the premium payment amount of the derivative contract.

Claim 299 (New) The system of claim 298, where the BICs are supplied in a variety of payout payment formats, including the Options format, the extended Arrow Debreu format and the Fourier format.

Claim 300 (New) The system of claim 298 used in a trading or exchange system, wherein step b) further configured to includes receiveing a computed marginal premium payment amount for each unit or group of composing BICs obtained by selecting the most competitive price among those quoted by one or more market makers.

Claim 301 (New) The system of claim 300, where the selected most competitive prices are subsequently contracted upon confirmation of a user's intent to trade the original derivatives contract.

Claim 302 (New) The system of claim 298, wherein the premium payment amount for the marginal units of BICs received from the second input device is provided in aggregate or compressed form to reduce complexity or computing time.

Claim 303 (New) The system of claim 298, wherein the premium payment amount transmitted via the output device is increased by an optional service margin.

Claim 304 (New) A computer program product for yielding a premium payment

amount of a derivative contract along a multi-period timeline comprising

computer readable memory having logic stored therein for execution on a

computer, said logic comprising:

a) logic to receive a request from a user for a premium payment amount of a

derivative contract, said derivative contract having a description comprising, on

the multi-period timeline, a contract agreement time, a premium payment time

and a payout payment time and, said description further comprising a payout

payment amount described as a function of realized values of specified

underlying(s) or parameters between the premium payment time and the payout

payment time;

b) logic to receive a premium payment amount for each marginal unit of basis

instruments contracts (BICs) having the same payout payment time as the

derivative contract, each said marginal unit of BICs having the same premium

payment time, said premium payment time being a time that precedes the payout

payment time of the derivatives contract on the multi-period timeline;

c) logic to decompose the derivative contract into a portfolio of composing BICs,

wherein each composing BIC comprises a quantity of marginal units of BICs

having the same payout payment time as the derivative contract;

d) logic to compute a premium payment amount for each composing BIC based

on a sum of the marginal units of BICs premium payment amounts in the quantity

given by the portfolio decomposition;

e) logic to compute a premium payment amount of the derivatives contract based

on the portfolio of composing BICs having the same payout payment time as the

derivatives contract, wherein said premium payment amount of the derivatives

contract is computed as a weighted sum of the premium payment amounts of the

composing BICs in the portfolio based on the quantities given by the portfolio

decomposition,

f) logic to yield the premium payment amount of the derivatives contract for the

premium payment time of the marginal units of BICs;

g) logic to repeat steps a), b), c) ,d), e) and f), where the premium payment

amount of the derivative contract for the premium payment time of the marginal

units of BICs is received by the first input device as a new derivatives contract

with an incrementally decreased payout payment time, and wherein said

repetition terminates when the premium payment time in step f) coincides with

the premium payment time specified by the user in the description for the

derivative contract;

h) and logic to transmit the premium payment amount for the derivative contract

yielded in step f) when step g) indicates the repetition terminates, to the user who

requested the premium payment amount of the derivative contract.

Claim 305 (New) The computer program product of claim 304, where the BICs

are supplied in a variety of payout payment formats, including the Options format,

the extended Arrow Debreu format and the Fourier format.

Claim 306 (New) The computer program product of claim 304 used in a trading or exchange system, wherein limitation b) further includes logic to receive a computed marginal premium payment amount for each unit or group of composing BICs obtained by selecting the most competitive price among those quoted by one or more market makers.

Claim 307 (New) The computer program product of claim 306, where the selected most competitive prices are subsequently contracted upon confirmation of a user's intent to trade the original derivatives contract.

Claim 308 (New) The computer program product of claim 304, wherein the premium payment amount for the marginal units of BICs received from the second input device is provided in aggregate or compressed form to reduce complexity or computing time.

Claim 309 (New) The computer program product of claim 304, wherein the premium payment amount transmitted via the output device is increased by an optional service margin.

Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

Claim 292 is allowable over the prior art because of limitations a), b) and g) recited therein. Particularly relevant in the prior art is the concept of Arrow

Debreu Security (ADS) which is a type of contingent claim or insurance contract that pays a fixed amount if a particular event occurs or nothing otherwise.

Spanning such types of claims over all possible scenarios enables one to replicate and therefore price any contingent claim based on the occurrence of the uncertain event.

The claimed invention distinguishes three rather than two times in the description of a derivatives contract, as recited in limitation a). These times are a contract agreement time, a premium payment time and a payout payment time. In the prior art (ADS), the contract agreement time and the premium payment time are taken to be essentially the same. The distinction here leads to derivatives contracts with notional amounts that are functions of the future realized values of underlyings or parameters between the contract agreement time and the premium payment time.

The description of BICs in the specification and their introduction in limitation b) is relevant to the repetitive process recited in limitation g). That repetitive process enables static replication of derivative contracts using manageable amounts of replicating instruments i.e. BICs. This allows for computational savings when computing the premium payment amounts of derivatives contracts; essentially, the number of computing operations which in an ADS type of replication would have been needed would be growing exponentially with the number of trading periods. The number of BICs practically grows as a polynomial of fairly low order.

Independent claims 298 and 304 are allowed based on a similar rationale.

Dependent claims are allowed based on the same rationale as the claims from which they depend.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SARA CHANDLER whose telephone number is (571)272-1186. The examiner can normally be reached on M-F, 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Kramer can be reached on (571)272-6783. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 3693

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SMC /JAGDISH N PATEL/

Primary Examiner, Art Unit 3693